SEQUENCE LISTING

- (1) GENERAL\INFORMATION:
 - (i) APPLICANT: Black Jr., Charles A.
 - (ii) TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ACTIVATING GENE'S OF INTEREST
 - (iii) NUMBER OF SEQUENCES: 16
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: W. Murray Spruill
 - (B) STREET: 3605 Glenwood Ave. Suite 310
 - (C) CITY: Raleigh
 - (D) STATE: NC
 - (E) COUNTRY: US
 - (F) ZIP: 27622
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE Floppy disk
 - (B) COMPUTER: IRM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 (A) NAME: Spruill, W. Murray

 - (B) REGISTRATION NUMBER 32,943
 - (C) REFERENCE/DOCKET NUMBER: 5722-2
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 919/420 2202
 - (B) TELEFAX: 919 881 3175
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic aci
 - (A) DESCRIPTION: /desc = "Recombinant molecule (Multiple Cloning Site/Kozack sequence/LacZ gene)"
 - (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (B) LOCATION: 1..64
 - (D) OTHER INFORMATION: /product= "Multiple Cloning Site"
 - (ix) FEATURE:
 - (A) NAME/KEY: misc_feature

- (B) LOCATION: 65..79
- (D) OTHER INFORMATION: /function= "Consensus sequence of translation initiation" /product= "Kozack sequence"

(ix) FEATURE:

- (A) NAME/KEY: prim_transcript
- (B) LOCATION: 80..4279
- (D) OTHER INFORMATION: /gene= "LacZ" /standard_name= Beta galactosidase"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

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GGAAAGTCCC	CAGGCTCCCC	AGCAGGCAGA	AGTATGCAAA	GCATGCATCT	CAATTAGTCA	240
GCAACCAGGT	GTGGAAAGTC	CCCAGGCTCC	CCAGCAGGCA	GAAGTATGCA	AAGCATGCAT	300
CTCAATTAGT	CAGCAACCAT	AGTCCCGCCC	CTAACTCCGC	CCATCCCGCC	CCTAACTCCG	360
CCCAGTTCCG	CCCATTCTCC	GCCCCATGGC	TGACTAATTT	TTTTTATTTA	TGCAGAGGCC	420
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GGCTTTTGCA	AAAAGCTTGG	GATCTCTATA	ATCTCGCGCA	ACCTATTTC	CCCTCGAACA	540
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AATGGAAAGG	CATTATTGCC	GTAAGCCGTG	GCGGTCTGGT	ACCGGTGGGT	GAAGACCAGA	720
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TCGATCCCGT	CGTTTTACAA	CGTCGTGACT	GGAAAACCC	TGGCGTTACC	CAACTTAATC	840
GCCTTGCAGC	ACATCCCCCT	TTCGCCAGCT	GCGTAATAG	CGAAGAGGCC	CGCACCGATC	900
GCCCTTCCCA	ACAGTTGCGC	AGCCTGAATG	GCGAATGGCG	CTTTGCCTGG	TTTCCGGCAC	960
CAGAAGCGGT	GCCGGAAAGC	TGGCTGGAGT	GCGATCTTCC	TGAGGCCGAT	ACTGTCGTCG	1020
TCCCCTCAAA	CTGGCAGATG	CACGGTTACG	ATGGCCCAT	CTACACCAAC	GTAACCTATC	1080
CCATTACGGT	CAATCCGCCG	TTTGTTCCCA	CGGAGAATCC	GACGGGTTGT	TACTCGCTCA	1140
CATTTAATGT	TGATGAAAGC	TGGCTACAGG	AAGGCAGAC	GCGAATTATT	TTTGATGGCG	1200
TTAACTCGGC	GTTTCATCTG	TGGTGCAACG	GGCGCTGGGT	CGGTTACGGC	CAGGACAGTC	1260
GTTTGCCGTC	TGAATTTGAC	CTGAGCGCAT	TTTTAGGCGC	CGGAGAAAAC	CGCCTCGCGG	1320
TGATGGTGCT	GCGTTGGAGT	GACGGCAGTT	ATCTGGAAGA	TCAGGATATG	TGGCGGATGA	1380
GCGGCATTTT	CCGTGACGTC	TCGTTGCTGC	ATAAACCGAC	TACACAAATC	AGCGATTTCC	1440

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እጥርጥጥርርርልር	TCGCTTTAAT	GATGATTTCA	CCCCCCCTCT	ACTCGACCCT	CAACTTCACA	1500
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	GTTGCGTGAC		,			1560
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CCGATCGCGT	CACACTACGT	CTGAACGTCG	AAAACCCGAA	ACTGTGGAGC	GCCGAAATCC	1680
CGAATCTCTA	TCGTGCGGTG	GTTGAACTGC	ACACCGCCGA	CGGCACGCTG	ATTGAAGCAG	1740
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GCCTGTATGT	GGTGGATGAA	GCCAATATTG	AAACCCACGG	CATGGTGCCA	ATGAATCGTC	2040
TGACCGATGA	TCCGCGCTGG	CTACCGGCGA	TGAGCGAACG	CGTAACGCGA	ATGGTGCAGC	2100
GCGATCGTAA	TCACCCGAGT	GTGATCATCT	GGTCGCTGGG	GAATGAATCA	GGCCACGGCG	2160
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ATGAAGGCGG	CGGAGCCGAC	ACCACGGCCA	CCGATATTAT	TTGCCCGATG	TACGCGCGCG	2280
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ATTTTTGCAT	CGAGCTGGGT	AATAAGCGTT	GGCAATTTAA	CCCCAGTCA	GGCTTTCTTT	3060
CACAGATGTG	GATTGGCGAT	AAAAAACAAC	TGCTGACGCC	GCTGCGCGAT	CAGTTCACCC	3120
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CTGCC GCCTGTTTG	ACCGCTGGGA	TCTGCCATTG	TCAGACATGT	3540
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GCGC GGCGACTTCC	AGTTCAACAT	CAGCCGCTAC	AGTCAACAGC	3660
GCCAT CGCCATCTGC	TGCACGCGGA	AGAAGGCACA	TGGCTGAATA	3720
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CCGGT CGCTACCATT	ACCAGTTGGT	CTGGTGTCAA	AAATAATAAT	3840
GTCTG CCCGTATTTC	GCGTAAGGAA	ATCCATTATG	TACTATTTAA	3900
GGATG TTCGGTTTAT	TCTTTTTCTT	TTACTTTTT	ATCATGGGAG	3960
rccc attractac	ATGACATCAA	CCATATCAGC	AAAAGTGATA	4020
CCGCT ATTCTCTGT	TCTCGCTATT	ATTCCAACCG	CTGTTTGGTC	4080
TCGGA ACTTGTTAT	TGCAGCTTAT	AATGGTTACA	AATAAAGCAA	4140
CACAA ATAAAGCATT	TTTTTCACTG	CATTCTAGTT	GTGGTTTGTC	4200
ATCTT ATCATGTCTG	GATCCTCTAG	AGTCGACCTG	CAGGCATGCA	4260
· \ \ \ \ TCGT	\			4279
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- (2) INFORMATION FOR SEQ ID NO: 2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc/= "Synthetic oligonucleotide"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GAATACAAAG CTTATGCATG

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- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 13 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: GAATACAAAG CTT 13 (2) INFORMATION FOR SEQ ID NO:4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE:\nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYRE: other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: 20 AAAGCTTATG CATGCGGCCG (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERESTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYRE: other nucleic acid (A) DESCRIPTION: \/desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: CGGCCGCATC TAGAGGGCCC 20 (2) INFORMATION FOR SEQ ID NO 6: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide"

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6: GCGGCCGCAT CTAGAGGGCC CGGAT 25 (2) INFORMATION FOR SEQ ID NO:7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: AATACAAAGC TTATGCATGC GGCC 24 (2) INFORMATION FOR \$EQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE \ \phither nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: AATACAAAGC TTATGCATGC GGCCGCATCT 30 (2) INFORMATION FOR SEQ IN NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic\acid (C) STRANDEDNESS: \single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: CATGCATAAG CTTTGTATTC 20 (2) INFORMATION FOR SEQ ID NO:10: (i) SEQUENCE CHARACTERISTICS:

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- 27 (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10: AAGCTTTGTA TTC 13 (2) INFORMATION FOR SEQ ID NO:11: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:\20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11: CGGCCGCATG CATAAGCTTT 20 (2) INFORMATION FOR SEQ ID NO:12: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH 20 base pairs (B) TYPE: nucleid acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12: GGGCCCTCTA GATGCGGCCG 20 (2) INFORMATION FOR SEQ ID NO:13: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = \Synthetic oligonucleotide"

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13: ATCCGGGCCC TCTAGATGCG GCCGC 25 (2) INFORMATION FOR SEQ ID NO:14: (i) SEQUENCE CHARACTERISTICS: (A) LENGTA: 24 base pairs (B) TYPE: qucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE:\ other nucleic acid (A) DESCRIPTION: /desc = "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14: GGCCGCATGC ATAAGCTTTG TATT 24 (2) INFORMATION FOR SEQ ID No:15: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid' (C) STRANDEDNESS: \$ingl& (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nudledc acid (A) DESCRIPTION: /desc/ "Synthetic oligonucleotide" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15: AGATGCGGCC GCATGCATAA GCTTTGTATT 30 (2) INFORMATION FOR SEQ ID NO:16: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1798 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: mRNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16: GAAUACAAAG CUUAUGCAUG CGGCCGCAUC UAGAGGGCCC GGAUCCAAAU GGAAGACGCC 60

AAAAACAUAA	AGAAAGGCCC	GGCGCCAUUC	UAUCCUCUAG	AGGAUGGAAC	CGCUGGAGAG	120
CAACUGCAUA	AGGCUAUGAA	GAGAUACGCC	CUGGUUCCUG	GAACAAUUGC	UUUUACAGAU	180
GCACAUAUCG	AGGUGAACAU	CACGUACGCG	GAAUACUUCG	AAAUGUCCGU	UCGGUUGGCA	240
GAAGCUAUGA	AACGAUAUGG	GCUGAAUACA	AAUCACAGAA	UCGUCGUAUG	CAGUGAAAAC	300
UCUCUUCAAU	ncnnnandcc	GGUGUUGGGC	GCCGUUAUUU	AUCGGAGUUG	CAGUUGCGCC	360
CGCGAAGCAC	SUAAUAUUUA	AACGUGAAUU	GCUCAACAGU	AUGAACAUUU	CGCAGCCUAC	. 420
CGUAGUGUUU	GUUUCCAAAA	\AGGGGUUGCA	AAAAAUUUUG	AACGUGCAAA	AAAAAUUACC	480
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GUACACGUUC	GUCACAUCUC	AUQUACCUCC	CGGUUUUAAU	GAAUACGAUU	UUGUACCAGA	600
GUCCUUUGAU	CGUGACAAAA	CAAUUGCACU	GAUAAUGAAU	UCCUCUGGAU	CUACUGGGUU	660
ACCUAAGGGU	GUGGCCCUUC	CGCAUAGAAC	neccnecenc	AGAUUCUCGC	AUGCCAGAGA	720
UCCUAUUUUU	GGCAAUCAAA	ucauucdgga	UACUGCGAUU	UUAAGUGUUG	UUCCAUUCCA	780
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AAUGUAUAGA	UUUGAAGAAG	AGCUGUUUUH	ACGAUCCCUU	CAGGAUUACA	AAAUUCAAAG	900
UGCGUUGCUA	GUACCAACCC	ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע	CUBCGCCAAA	AGCACUCUGA	UUGACAAAUA	960
CGAUUUAUCU	AAUUUACACG	AAAUUGCUUC	ndedededcev	CCUCUUUCGA	AAGAAGUCGG	1020
GGAAGCGGUU	GCAAAACGCU	UCCAUCUUCC	AGGGAUAGGA	CAAGGAUAUG	GGCUCACUGA	1080
GACUACAUCA	GCUAUUCUGA	UUACACCCGA	GGGGAUGAU	AAACCGGGCG	CGGUCGGUAA	1140
AGUUGUUCCA	UUUUUUGAAG	CGAAGGUUGU	GGAUQUGGAU	ACCGGGAAAA	CGCUGGGCGU	1200
UAAUCAGAGA	GGCGAAUUAU	GUGUCAGAGG	ACCUAUGAUU	Auguccgguu	AUGUAAACAA	1260
UCCGGAAGCG	ACCAACGCCU	UGAUUGACAA	GGAUGGAUGG	CUACAUUCUG	GAGACAUAGC	1320
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CAAAGGAUAU	CAGGUGGCCC	CCGCUGAAUU	GGAAUCGAUA	UUGUUACAAC	ACCCCAACAU	1440
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GGGCGGAAAG	UCCAAAUUGU	AAAAUGUAAC	: UGUAUUCAGO	GAUGACGAAA	UUCUUAGCUA	1740
UUGUAAUCCU	CCGAGGGGG	GAGCUCCCAA	AAAAAAAAA	aaaafaaaa .	AAAAAAA	1798

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